HIGH-G | FLIGHT SIMULATION | PILOT SELECTION | NIGHT VISION
ALTITUDE PHYSIOLOGY TRAINING | EMERGENCY EGRESS
SPATIAL DISORIENTATION | SITUATIONAL AWARENESS

www.etcAircrewTraining.com
Environmental Tectonics Corporation (ETC) has designed, manufactured, installed, commissioned and supported aeromedical training and research simulation systems since 1969.

From G-tolerance to night vision systems, our equipment can be procured individually to complement an existing training program or as part of a complete aeromedical training center. ETC anticipates aircrew needs and offers simulators that address training and research requirements. Producing the most cutting-edge simulators and focusing on the latest aviation concerns makes ETC the only choice for research and training.

ETC Clients

With equipment in over 85 countries, ETC is a true leader in flight training and simulation. For a complete list of countries and equipment visit us on the Web.

www/etcAircrewTraining.com/Clients
The ideal training device for unusual attitude recovery, spatial disorientation, motion desensitization and flight training. Available in a fixed or rotary wing configuration with a single or dual seat cockpit, the GL-4000 simulator has continuous and simultaneous motion in four axes of rotation with up to 6 Gs of sustained acceleration stimuli in any direction. The cockpit is interchangeable and fidelity is configured to each client's individual training needs.

www.etcAircrewTraining.com/GL4000

GYROFLIGHT
A high-fidelity military flight simulator. The reconfigurable cockpit can simulate multiple customer-designated aircraft. Real world visuals and realistic flight models provide a quality training experience.

www.etcTacticalFlight.com/PEREGRINE

Also Available: The GYROLAB GL-1500. www.etcAircrewTraining.com/GL1500
GL-6000 GRYPHON
Disorientation Research Device

The unique motion capabilities of the GRYPHON, including simultaneous motion cueing, make it an ideal platform for STOVL, V/STOL and VTOL aircraft pilot training. The simultaneous rotational and linear acceleration capabilities provide the ideal research environment to explore more advanced flight scenarios in the safety of a ground based unit.

www.etcAircrewTraining.com/GRYPHON

THE ORIGIN: The GL-6000 GRYPHON Disorientation Research Device was specifically developed for the Naval Medical Research Unit Dayton, Naval Aerospace Medical Research Laboratory located at Wright-Patterson Air Force Base, Ohio.
G-INDUCED LOSS OF CONSCIOUSNESS (G-LOC) IS A PERSISTENT THREAT THAT EACH PILOT MUST MANAGE DURING FLIGHT IN A HIGH-PERFORMANCE AIRCRAFT, PARTICULARLY WHEN ENGAGED IN A COMBAT MISSION. TO ELIMINATE G-LOC, AN AGGRESSIVE G-TRAINING PROGRAM IS ESSENTIAL. WITH THE ATFS-400, PILOTS CAN PRACTICE ANTI-G STRAINING MANEUVERS IN A TASK-SATURATED ENVIRONMENT WHILE EXPERIENCING THE REAL PHYSIOLOGICAL EFFECTS OF FLIGHT—JUST LIKE A LIVE, IN-AIR MISSION.

Authentic Tactical Fighting System ATFS-400

The ATFS-400 produces centrifugal accelerations of up to 15Gs at onset rates of up to 10G/s. Continuous high performance 360° motion capability of pitch and roll axes makes it possible to align these forces on the pilot’s body as any combination of +/- Gx, +/- Gy and +/- Gz.

For maximum versatility, the ATFS-400’s interchangeable cockpits can simulate any customer designated aircraft and function as a stand-alone simulator when not installed on the centrifuge motion platform. Each cockpit can be data linked for enhanced group training exercises. A synthetic environment generator and avionics elements are included to support tactical flight training.

Higher performance variations of the ATFS-400 are also available.

www.etcAircrewTraining.com/ATFS400
G-LAB

The G-LAB is an acceleration physiology trainer with a passive roll system and the ability to generate up to 15Gs at 8G/s, replicating the performance of today’s tactical aircraft. ETC’s G-LAB offers an array of optional features such as medical monitoring and NVG capability.

www.etcAircrewTraining.com/GLAB

For specific tactical applications, ETC offers the ATFS-400 PHOENIX Authentic Tactical Fighting System, which addresses the unique training concerns of tactical flight.

www.etcTacticalFlight.com/PHOENIX
FALCORN Altitude Chamber

The FALCORN is ideal for training and research applications that require rapid altitude, temperature or humidity changes and varied oxygen concentrations. The FALCORN Altitude Chamber provides a selection of optional items to enhance its functionality such as automated hypoxia evaluation, reactor management, medical monitoring and data acquisition systems.

www.etcAircrewTraining.com/FALCON

Canopy Hood
Provides the trainee flight simulation and imagery to create a more realistic, task-oriented training experience.

Removable Skins
Cover mechanical systems and structure for a more orderly and visually appealing chamber.

Automated Psychomotor Assessment System (APAS)
An individual handheld wireless device for student use during hypoxia demonstrations with embedded psychomotor tasks.

Also Available:
Oxygen Delivery Systems
ETC uses proprietary components in conjunction with actual components to simulate oxygen regulators for various aircraft including the Typhoon. These regulators simulate functions including Positive Pressure Breathing for Altitude (PPBA) and Positive Pressure Breathing for G (PPBG) for flight training devices such as the ATFS-400 and altitude chambers.
ETC’s Zero/Zero Ejection Seat Simulator (ESS) is a major breakthrough in ejection trainers. The ESS provides up to 10G of acceleration and supports enhanced interactive, pre-ejection and ejection procedures training. The ESS also supports “decision to eject” training with flight simulation ejection profiles.

www.etcAircrewTraining.com/EjectionSeat
Night Vision and Night Vision Goggle Training

This training utilizes custom Terrain Model Boards (TMB), IR projection technology and classroom curriculum to teach techniques for vision in low or no-light scenarios—with or without goggles.

www.etcAircrewTraining.com/NightVision

Water Survival Training

Includes: helicopter egress, parachute drop and disentanglement, drag and helicopter rescue hoist training equipment for use together or individually. These systems provide training in critical skills that aircrew will need in the event of an over-water egress.

www.etcAircrewTraining.com/WaterSurvival
### Integrated Logistics Support (ILS)

This group provides on-site operation, maintenance and service of flight simulators and training systems made by ETC or other manufacturers. The ILS group can also provide system upgrades for a range of equipment.


### Aeromedical Training

The AeroMedical Training Institute (AMTI) provides training for pilots and aeromedical instructors at the customer’s site or at ETC’s comprehensive aeromedical training facility, the National AeroSpace Training And Research (NASTAR) Center in Pennsylvania, USA.

- [www.AeroMedicalTraining.com](http://www.AeroMedicalTraining.com)

### Pilot Selection System

Coupled with the General Aviation Trainer - Pilot Aptitude Testing System (GAT PATS) for practical skill assessment, this system identifies unsuitable pilot candidates early in the process, saving time and cost.

- [www.etcAircrewTraining.com/PilotSelection](http://www.etcAircrewTraining.com/PilotSelection)

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<th>Global AMC Locations:</th>
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<tr>
<td>Republic of Korea Air Force</td>
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<td>Paya Lebar, Singapore</td>
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<tr>
<td>The NASTAR Center</td>
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<tr>
<td>Pennsylvania, USA</td>
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